

Title (en)
FLUID CONTROL VALVE

Title (de)
FLUIDSTEUERVENTIL

Title (fr)
VANNE DE COMMANDE DE FLUIDE

Publication
EP 1553473 B1 20090909 (EN)

Application
EP 03738674 A 20030703

Priority
• JP 0308503 W 20030703
• JP 2002194953 A 20020703

Abstract (en)
[origin: EP1553473A1] A flow control valve includes a main body 1, bonnet 2, spring receiving portion 3, piston 4, spring 24, first diaphragm 27, first valve member 5, second valve member 6 and base plate 7, wherein an opening area of a hydraulic control portion composed of a valve element of the second valve member and a valve seat of the main body is changed according to a motion of the piston. <IMAGE>

IPC 8 full level
G05D 7/01 (2006.01); **F16K 31/122** (2006.01); **F16K 31/126** (2006.01); **F16K 41/12** (2006.01); **G05D 16/06** (2006.01)

CPC (source: EP KR US)
F16K 31/122 (2013.01 - KR); **F16K 31/1221** (2013.01 - EP US); **F16K 31/126** (2013.01 - KR); **F16K 41/12** (2013.01 - EP US); **G05D 7/01** (2013.01 - KR); **G05D 16/0647** (2013.01 - EP US); **G05D 16/0652** (2013.01 - EP US)

Cited by
US9347568B2; WO2013170931A1; WO2006128414A3; EP2850351B1

Designated contracting state (EPC)
DE

DOCDB simple family (publication)
EP 1553473 A1 20050713; EP 1553473 A4 20060322; EP 1553473 B1 20090909; DE 60329208 D1 20091022; JP 2004038571 A 20040205; JP 3995543 B2 20071024; KR 100963613 B1 20100615; KR 20050026936 A 20050316; TW 200401181 A 20040116; TW I289244 B 20071101; US 2005285064 A1 20051229; US 7108241 B2 20060919; WO 2004006035 A1 20040115

DOCDB simple family (application)
EP 03738674 A 20030703; DE 60329208 T 20030703; JP 0308503 W 20030703; JP 2002194953 A 20020703; KR 20047021513 A 20030703; TW 92118257 A 20030703; US 51970605 A 20050728